Reliability Engineering and System Safety **35** (1992) 259–260

CONTENTS OF VOLUME 35

Number 1

Editorial iii

Guest Editorial v

Empirical Evaluation of THERP, SLIM and Ranking to Estimate HEPs 1
BERNHARD ZIMOLONG (FRG)

System Reliability Analysis and Optimization of Stiffened Panels under Compression 13
B. F. SONG & Y. S. FENG (People's Republic of China)

A Bayes-competing Risk Model for the Use of Expert Judgment in Reliability Estimation 23
F. P. A. COOLEN, P. R. MERTENS & M. J. NEWBY (The Netherlands)

Accident Generating Systems and Chaos: a Dynamic Study of Accident Time Series . . 31
PALLE HAASTRUP & SILVIO FUNTOWICZ (Italy)

Showing Compliance with Probabilistic Safety Criteria and Objectives 39
M. F. VERSTEEG (The Netherlands)

Optimal Release Policies for a Flexible Software Reliability Growth Model 49
P. K. KAPUR & V. K. BHALLA (India)

Objective Prior Distributions and Bayesian Updating 55
JUSSI K. VAURIO (Finland)

'Expert Information' versus 'Expert Opinions.' Another Approach to the Problem of Eliciting/Combining/Using Expert Knowledge in PRA 61
STAN KAPLAN (USA)

Tensile Failure Load and Fiber Diameter as Stochastic Variables in the Determination of Fiber Strength Statistics 73
V. M. KARBHARI & D. J. WILKINS (USA)

A Remark on Data for Defects Used in Probabilistic Analyses of Failure of Nuclear Pressure Vessels 77
GUSTAF ÖSTBERG (Sweden)

On Definition and Estimation of Wind Risk 83
G. R. DARGAHI-NOUBARY (USA)

Calendar 89

Number 2

Probability of Containment Failure Mode for Fast Pressure Rise 91
J. C. HELTON, R. J. BREEDING & S. C. HORA (USA)

Time Considerations in Recovery Analysis 107
ED M. DOUGHERTY, JR (USA)

MTBF and MSFT for a k-out-of-n : G System with Two Types of Forced Outages . . . 117
KYUNG-HEE JUNG (Korea)

Reliability Engineering and System Safety (**35**) (1992)—© 1991 Elsevier Science Publishers Ltd, England.

INTENT: a Method for Estimating Human Error Probabilities for Decisionbased Errors 127
DAVID I. GERTMAN, HAROLD S. BLACKMAN, LON N. HANEY, KAREN S. SEIDLER & HEIDI A. HAHN (USA)

Optimization Techniques for System Reliability: a Review 137
ABDEL-AZIZ MOHAMED & LAWRENCE M. LEEMIS & A. RAVINDRAN (USA)

FMEA—A Digraph and Matrix Approach 147
O. P. GANDHI & V. P. AGRAWAL (India)

Group Reliability Analysis 159
KAZUO FURUTA & SHUNSUKE KONDO (Japan)

Robustness of Exponential Test Plans to Weibull Distributions 169
K. K. SHARMA & R. S. RANA (India)

Reliability Analysis of Dynamic Redundant Systems with Imperfect Coverage 173
HOANG PHAM & MICHELLE PHAM (USA)

Calendar 177

Number 3

Transient Analysis of Reliability and Availability in k-to-l-out-of-n:G System 179
YOW-MOW CHEN (Japan)

Failure Rate Coupling Effects in Uncertainty Analysis of Redundant Systems 183
JUSSI K. VAURIO (Finland)

Risk Analysis in Safety Reports Required by the Seveso Directive 193
J. L. HAWKSLEY (UK)

Reliability Modeling of Uncontrolled and Controlled Reservoirs 201
N. LIMNIOS & C. COCOZZA-THIVENT (France)

Elicitation of Safety Requirements for Process Automation 209
ARJA TOOLA (Finland)

Reliability Analysis of Hydraulic Systems of LHD Machines Using the Power Law Process Model 217
UDAY KUMAR & BENGT KLEFSJÖ (Sweden)

Dependent Failure—a Multiple-State Stochastic Description 225
PETER DÖRRE (FRG)

Dependent Failure Modeling in Highly Redundant Structures—Application to BWR Safety Valves 235
TUOMAS MANKAMO & MIKKO KOSONEN (Finland)

Availability of Standby Redundant Subsystem and Secondary Subsystem Subject to Shut-off Rules 245
YOW-MOW CHEN, T. FUJISAWA & H. OSAWA (Japan)

Technical Note

On the Human Error Probability for Injecting Boron during ATWS at a BWR 253
DANA L. KELLY (USA)

Calendar 257

ST